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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/961,125	09/21/2001	Ciaran Gerard O'Donnell	US 018157	4203		
75	90 02/18/2005		EXAM	EXAMINER		
Corporate Pate	ent Counsel	MYERS,	MYERS, PAUL R			
U.S. Philips Co.						
P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510			ART UNIT	PAPER NUMBER		
			2112			

DATE MAILED: 02/18/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)						
•	09/961,125	O'DONNELL, CIARAN GERARD						
Office Action Summary	Examiner	Art Unit						
	Paul R. Myers	2112						
- The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) Responsive to communication(s) filed on 07 Ju	ily 2004.							
2a)⊠ This action is <b>FINAL</b> . 2b)☐ This	action is non-final.							
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.						
Disposition of Claims								
4) Claim(s) 1-30 is/are pending in the application.								
4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>1-30</u> is/are rejected.	·							
7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/or	r election requirement.							
Application Papers								
9) The specification is objected to by the Examine	г.							
10) The drawing(s) filed on is/are: a) acce	epted or b) objected to by the I	Examiner.						
Applicant may not request that any objection to the		·						
Replacement drawing sheet(s) including the correct								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:								
<ol> <li>Certified copies of the priority documents</li> </ol>								
2. Certified copies of the priority documents								
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
Attachment(s)	л. П	(DTO 442)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  Paper No(s)/Mail Date								
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		Patent Application (PTO-152)						
S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Office Ac	tion Summary Pa	art of Paper No./Mail Date 20040827						

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#### **DETAILED ACTION**

## Response to Arguments

1. Applicant's arguments with respect to claims 1-30 have been considered but are moot in view of the new ground(s) of rejection.

# Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-4, 8-19, 21, and 25-30 rejected under 35 U.S.C. 103(a) as being unpatentable over Zou PN 6,160,796 in view of James et al PN 6,539,450.

As per claims 1 and 2, Zou discloses the claimed invention including a home control platform comprising: a plurality of serial buses (1394 bus 30a-f) that are configured to provide interconnections among a plurality of processing units (12, 14, 16, 18, 20, 22, 24), a bus allocation control unit (CMM 250) that is configured to receive requests for bandwidth allocation from the plurality of processing units, and to provide allocations of subsets of the plurality of serial buses to satisfy the requests (col. 9, lines 45-64). Zou does not expressly teach the control unit aggregates multiple serial buses to satisfy a single bandwidth request. James et al teaches a controller (IRM) in a home network that aggregates multiple serial buses to satisfy a single bandwidth request (Column 9 lines 22-32). It would have been obvious to a person of ordinary

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skill in the art at the time of the invention to allow for the one bandwidth request to handle multiple buses because this would have allowed for efficient handling of interconnected buses.

As per claim 3, Zou discloses the home control platform of claim 2, wherein the at least one processing unit includes at least one of: an MPEG decoder, an MPEG encoder a signal processor, a variable-length decoder, a variable-length encoder, a coder-decoder, a video CODEC, an audio CODEC, a Fast-Fourier-Transform device, a Discrete-Cosine-Transform device, a video processor, and an audio processor (e.g. fig. 1; fig. 2; col. 2, lines 60-65).

As per claim 4, Zou discloses the home control platform of claim 2, wherein the at least one processing unit includes at least one of: a serial-to-parallel converter, a parallel-to-serial converter, a bus arbitrator, a bus router, and a direct-memory-access device (e.g. fig. 2; fig. 4; fig. 5A, 5B)

As per claim 8, Zou further discloses at least one control processor (DCM) that is configured to provide control of data transfer among the plurality of processing units (col. 7, lines 5-8).

As per claim 9, Zou discloses the home control platform of claim 8, wherein the at least one control processor includes at least one of: a network interface, a network manager, a browser, and a user interface (col. 8, lines 30-31).

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As per claim 10, Zou discloses the home control platform of claim 9, wherein the at least one control processor includes at least one of: a serial-to-parallel converter, a parallel-to-serial converter, a bus arbitrator, a bus router, a protocol stack, and a direct-memory-access device (col. 9, lines 1-10).

As per claim 11, Zou discloses the home control platform of claim 8, wherein the at least one control processor includes: a bus interface unit (fig. 2), operably coupled to the plurality of serial buses, that is configured to effect transfer of data via the plurality of serial buses, and a central processing unit (101), operably coupled to the bus interface unit, that is configured to process input data from the bus interface unit, and is configured to provide processed data to the bus interface unit (col. 8, lines 15-34).

As per claim 12, Zou discloses the home control platform of claim 11, wherein the at least one control processor further includes an SDRAM (memory; fig. 2).

As per claim 13, Zou discloses the home control platform of claim 8, wherein the at least one control processor further includes a microkernel that is configured to provide base operating system services that include at least one of: semaphores, messaging, scheduling, exception management, task management, and memory management (col. 9, lines 5-67).

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As per claim 14, Zou discloses the home control platform of claim 13, wherein the at least one control processor further includes an interface that is configured to couple the microkernel to a standard operating system (col. 12, lines 1 et seq.; fig. 3; fig. 8).

As per claim 15, Zou discloses the home control platform of claim 14, wherein the standard operating system includes one of: Vxworks, WinCE, and LINUX (col. 8, lines 31 et seq.).

As per claim 16, Zou discloses the home control platform of claim 13, wherein the task management is configured to provide direct access to at least one of the plurality of processing units, the at least one of the plurality of processing units being configured as a coprocessor, and the direct access being provided through a coprocessor interface layer (col. 8, lines 1-67).

As per claim 17, Zou discloses the home control platform of claim 8, wherein the at least one control processor is further configured to provide at least one of: task memory and CPU space isolation, virus protection, and money management (col. 8, lines 15-29).

As per claim 18, Zou discloses the home control platform of claim 8, wherein the at least one control processor is further configured to provide an interface between the home control platform and at least one legacy consumer product, the at least one legacy consumer product includes at least one of: a television, a telephone, an audio system, a video system, and an appliance (fig. 1A).

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As per claim 19, Zou discloses the home control platform of claim 8, wherein the at least one control processor includes at least one of: a voice recognition system, a voice synthesis system, and a wireless device interface system (e.g. CD system; fig. 1A).

As per claim 21, Zou discloses the home control platform of claim 1, further including a power supply that is configured to provide power to one or more of the plurality of processing units in that power supply are inherent in each system in order for the devices to function.

As per claim 25, Zou discloses a control processor (e.g. top-set-box) for use in a home control platform, comprising: a bus interface unit, operably coupled to a plurality of serial buses of the home control platform, that is configured to effect transfer of data via the plurality of serial buses (1394; 30a-f), based on an allocation of a select one or more buses of the plurality of serial buses by the home control platform (col. 9, lines 45-64), and a central processing unit, operably coupled to the bus interface unit, that is configured to process input data from the bus interface unit, and is configured to provide processed data to the bus interface unit (fig. 2).

As per claim 26, Zou discloses the control processor of claim 25, further including a microkernel that is configured to provide base operating system services that include at least one of: semaphores, messaging, scheduling, exception management, task management, and memory management (col. 9, lines 5-67).

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As per claim 27, Zou discloses the control processor of claim 26, further including an interface that is configured to couple the microkernel to a standard operating system (col. 12, lines 1 et seq.; fig. 3; fig. 8).

As per claim 28, Zou discloses the control processor of claim 26, wherein the task management is configured to provide direct access to at least one of a plurality of processing units, the at least one of the plurality of processing units being configured as a coprocessor, and the direct access being provided through a coprocessor interface layer (col. 8, lines 1-67).

As per claim 29, Zou discloses the control processor of claim 25, further including: an interface between the home control platform and at least one legacy consumer product, wherein the at least one legacy consumer product includes at least one of: a television, a telephone, an audio system, a video system, and an appliance (fig. 1A)

As per claim 30, Zou discloses the control processor of claim 25, further including at least one of: a voice recognition system, a voice synthesis system, and a wireless device interface system (e.g. CD system; fig. 1A).

4. Claims 5-7, 20, 22-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zou in view of James et al PN 6,539,450 as applied to claim 1 above and further in view of Brotz et al. (USPN 6,374,404; Brotz).

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As per claims 5-7 and 20, Zou in view of James et al discloses the invention as applied to claim 1 above. Zou does not explicitly disclose at least one processing unit includes: a filter unit, and a SDRAM and wherein the filter unit is configured to be programmable; and wherein each of the plurality of serial buses is configured to be self-timing.

Brotz, in the system of providing intelligent devices in a HAVI system, teach the use of an intelligent filter system (300) in a set-top-box (fig. 3) and a SDRAM (cache memory 102a) wherein the filter system 300 is programmable to filter web pages (col. 2, lines 60-67; col. 9, lines 5-14). Brotz further teaches the use of self-timing bus (col. 11, lines 60 et seq. to col. 12, lines 1-14).

It would have been obvious to one of ordinary skill in the home network system art at the time the invention was made to employ a programmable filtering system and memory in the HAVI system such as that of Zou as taught by Brotz. Brotz teaches that the a programmable filtering system and memory would allow users to cache the most frequently viewed web pages and would enable the system to update the user/viewer selections based on the behavior and viewing patterns/history of the user. With the provision of the cache memory 102e therefore increases the user's internet connectivity experience by eliminating any perceived latencies for selected web pages that are associated with a cache hit. (col. 10, lines 20-24).

As per claims 22-24, Zou discloses the claimed invention including a processing unit for use in a home control platform (e.g. figs. 1-2) comprising: a bus interface unit, processor and plurality of serial buses (1394; 30a-f). Zou does not disclose at least one processing unit includes: a filter unit, and a SDRAM and wherein the filter unit is configured to be programmable.

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Brotz, in the system of providing intelligent devices in a HAVI system, teach the use of an intelligent filter system (300) in a set-top-box (fig. 3) and a SDRAM (cache memory 102a) wherein the filter system 300 is programmable to filter web pages (col. 2, lines 60-67; col. 9, lines 5-14). Brotz further teaches the use of self-timing bus (col. 11, lines 60 et seq. to col. 12, lines 1-14).

It would have been obvious to one of ordinary skill in the home network system art at the time the invention was made to employ a programmable filtering system and memory in the HAVI system such as that of Zou as taught by Brotz. Brotz teaches that the a programmable filtering system and memory would allow users to cache the most frequently viewed web pages and would enable the system to update the user/viewer selections based on the behavior and viewing patterns/history of the user. With the provision of the cache memory 102e therefore increases the user's internet connectivity experience by eliminating any perceived latencies for selected web pages that are associated with a cache hit. (col. 10, lines 20-24).

### Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

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CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the date of this

final action.

The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Paul R. Myers whose telephone number is 703 305 9656. The

examiner can normally be reached on Mon-Thur 6:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Mark Rinehart can be reached on 703 305 4815. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PRM

August 27, 2004

PAUL R. MYERS PRIMARY EXAMINER

Paul R. Myera

Notice of References Cited			09/961,125 Reexam O'DONN		Reexaminatio O'DONNELL,	t(s)/Patent Under ination ELL, CIARAN GERARD		
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	С	US-5,991,292 11-1999 Foo			csaneanu et al.			370/352
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"A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

U.S. Patent and Trademark Office PTO-892 (Rev. 01-2001)

Notice of References Cited

Part of Paper No. 20040827